是这种的现在分词,我们就是我们是是这种的,我们就是我们的是我们的,我们是我们的。我们就是这个人,这种的人的,我们就是这种,我们就是我们的,我们就是我们的一个人, "我们就是我们就是我们就是我们就是我们就是我们的是我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们就是我们就是我们就是我们就是我们就是我们就是我们就

onon, D. M. (Magie); manubitabi, A. G. (cand. leon. bol., bocent);

"Properties and Heat Treatment of Alloys for Elastic Elements of Instruments,"
Termicheskaya obrabotka i prochnost' metallov i splavov; sbornik statey (Heat
Treatment and Strength of Metals and Alloys; Collection Articles) Moscow,
Mashgiz, 1958, 177 p.

A highly sensitive method was developed and a device designed for testing the properties of metal diaphragms for instruments. The diaphragms tested were made of beryllium bronze, phosphor bronze, and a high-alloy steel (N36KhTYu) containing nickel, chrome, titanium, and aluminum. Tests made on the diaphragms after heat treatment showed that their properties depend strongly on the temperature and length of aging, during which a decomposition of solid solutions takes place. Aging increases hardness and the elastic limit up to a certain maximum, whose position in time depends on the temperature of aging. Hysteresis, residual deformations, and sag are at their minimum approximately at those temperatures at which the properties associated with strength are most pronounced. Thus it is seen that these properties of the diaphragms are linked with the structure of the alloys; the higher the resistance of the development of microplastic deformations, the smaller the degree of hysteresis. On the basis of these findings, certain methods of heat treatment are recommended for diaphragms made of the alloys specified above.

SOV/137-58-11-22981

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 164 (USSR)

Rakhshtadt, A.G., Shur, D.M. AUTHORS:

Properties and Heat Treatment of Alloys Used for Elastic Members TITLE:

of Instruments (Svoystva i termicheskaya obrabotka splavov dlya

uprugikh elementov priborov)

PERIODICAL: V sb.: Term. obrabotka i prochnost metallov i splavov. Moscow,

Mashgiz, 1958, pp 65-114

Properties were investigated and a technique was developed for the heat treatment of corrugated membranes made of Be-bronzes Br. B2 ABSTRACT:

and Br. B2.5, of P bronze Br.0F6.5-0.15, and of steel N36KhT1-0. To test the membranes a special device was used which accomplishes

the determination of the properties of the membranes by the non-

contact method. It is established that the properties of the membranes depend greatly upon the temperature and the aging period. The following procedures for the heat treatment of membranes are recommended:

a) for N36KhT1-0 steel heating in a salt bath (35% NaC1 + 65% BaCl2) at 950°C ± 10°, cooling in water, aging in a vacuum furnace at 680-700°

1.5-2 hours; b) for Br. B2 heating in N dissociation medium at Card 1/2

STATE OF THE PROPERTY OF THE P

Properties and Heat Treatment of Alloys Used for Elastic Members (cont.)

 $790^{\circ} \pm 10^{\circ}$ , cooling in water, aging in a vacuum furnace at  $350^{\circ}$  45 min. It is established that Br. B 2.5 has no advantages over Br. B2 and that Br. 0F 6.5 - 0.15 is not suitable for membranes, because it is difficult to shape. Bibliography:

T. F.

Card 2/2

28(5) AUTHOR:

Shur, D. M.

TITLE:

Strength Method for the Determination of Residual Tensions (Silovoy metod opredeleniya ostatochnykh napryazheniy)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 5, pp 588-591 (USSR)

SOV/32-25-5-25/56

ABSTRACT:

According to the mechanical methods used today for the determination of residual tensions (RT) of the 1st order (Refs 1-3) the latter are calculated as functions of the measured deformations under utilization of the generalized law by Hooke, so that these methods may be called in principle "deformation methods" (DF). The (RT) however, may also be determined in another way, i.e. according to the "strength method" (SM). The latter is applied by adding an external load to the sample to be investigated which after discharge of the (RT) would again lose its deformation, so that the previous dimensions are again given to the sample. According to the magnitude of the load applied the magnitude and direction of the inner strains may be determined, which the sample possessed before being treated (by cutting, pickling, turning, etc) on the respective spot. The application of this method was tested for the study of the tangential (RT) that are formed in a plastic torsion of round cylindrical parts. Samples of steel

Card 1/2

中国的企业,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,19

SOV/32-25-5-25/56

Strength Method for the Determination of Residual Tensions

45 KhNMFA were investigated and tests were made on a turning lathe (Fig 1) with special facilities. The measuring results obtained are given (Table). A comparison of the calculation formulas of the method (DF) and (SM) shows that in the latter neither the modulus of elasticity nor the length of the cut layer must be considered, so that the cutting of the sample is considerably made easier. Diagrams are given concerning the variation of the (RT) and the torsional moment as a function of the radius of the layer (for hardened and then drawn samples)(Fig 2). One of the advantages of the new method is also the abovementioned independence of the electic properties of the material, so that also such materials may be checked, which do not obey Mooke's law. There are 2 figures, 1 table, and 3 references, 2 of which are Soviet.

Card 2/2

SHUR,	D.M.		
	Applying the load method to the study of resbent in the process of plastic deformation. 205-208 '60.	idual stresses Zav.lab. 26 (MIRA	no.2:

(Steel--Testing) (Strains and stresses)

S/032/60/026/05/39/063 B010/B008

AUTHORS: Lyubchik, M. A., Trusov, L. P., Shur, D. M.

TITLE: <u>Device</u> for Programmed Tests of Heat-resistant Materials for

Creep Strength

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 5, pp. 615-616

TEXT: A device (Fig. 1, Scheme) for programmed tests of heat-resistant materials for creep strength at changing temperature— and load conditions is described. The device is designed on the basis of a unit of the mass-produced machine of the TsNIIMASh design of type IP-4M. The individual technical data are mentioned. The electric circuit was worked out by V. I. Krizental'. The test sample (placed in the clamping jaw of the machine) is heated automatically by an electric furnace according to the program, and can also be cooled by compressed air. Loading is done by means of a weight which is displaced on a load beam. Programming of the experiment is done by an apparatus of type KEP-12/612 The 8 contacts are connected in series to an RPT-100 relay. The programming of the

Card 1/2

Device for Programmed Tests of Heatresistant Materials for Creep Strength

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S/032/60/026/05/39/063 B010/B008

できた。これは、これでは、これでは、これでは、これでは、これできる。

temperature change is carried out by a differential circuit, an  $\underline{\text{EPD-12}}^{28}$  potentiometer being used as a regulation device, and is controlled by a self-recording instrument of type  $\underline{\text{EPP-09}}^{28}$  The loading mechanism is directed by means of automatically operating switches. A thermogram (Fig. 2) obtained with the instrument described is mentioned. There are 2 figures.

Card 2/2

KUDRYAVTSEV, I.V., prof.; SHUR, D.M., inzh.

"Structure and analysis of metal fractures" by IA.B.Fridman, T.A.Gordeeva, A.M.Zaitsev. Reviewed by I.V.Kudriavtsev. Zav. lab. 26 no.8:1037-1038 '60. (MIRA 13:10) (Metals-Testing) (Deformations (Mechanics)) (Fridman, IA.B.) (Gordeeva, F.A.) (Zaitsev, A.M.)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550220011-4"

14998

12300

S/135/63/000/002/010/015 A006/A101

AUTHORS:

Zaytsev, G. Z., Candidate of Technical Sciences, Shur, D. M.,

TITLE:

The strength and nature of failure of weld joints, connecting sleeves with pipe bodies, during internal pressure loads

PERIODICAL: Svarochnoye proizvodstvo, no. 2, 1963, 30 - 32

TEXT: Grade 22K and 20T steel sleeves and branch pipes were welded onto pipe bodies. The strength of the welds was tested on a FKM-10,000 (GKM-10,000) compressor unit, using a mixture of 70% spindle oil with 30 kerosene; the modulus of volumetric pressure of the liquid was about 15,000 kg/cm2. Sleeves of different size were tested after welding, high tempering at 650°C and tempering at  $450^{\circ}$ C for 4.5 h. The axial rupture stresses,  $\sigma_{\rm Z}$  were determined from rupture pressure P using a formula for thin-walled containers  $\sigma_z = \frac{PD}{45}$  where D is the internal sleeve diameter and  $\delta$  is the thickness of the pipe wall. The tests show that the strength of welds on the sleeves was 30 - 40% below that of the base

Card 1/2

KUDRYAVTSEV, I.V., doktor tekhn.nauk, prof.; ZAYTSEV, G.Z., kand.tekhn.nauk; SHUR, D.M., inzh.; NAUMCHENKOV, N.Ye., kand.tekhn.nauk

"Dynamic strength of weld joints in low-carbon and low-alloy steels" by A.E. Asnis. Reviewed by I.V. Kudriavtsev and others. Svar. proizv. no.9:44-45 S '62. (MIRA 15:12) (Steel-Welding) (Asnis, A.E.)

GOZENPUT, M.D.; SHUR, D.P.; LYCHAGIN, V.I., neuchn. red.

[Photorelay in the wood-using industries] Fotorele v derevoobrabatyvaiushchei promyshlennosti. Moskva, TSentr. nauchnc-issl. in-t informatsii i tekhnikc-ekon. issledovanii po lesnoi, tselliulozno-bumazhnoi, derevoobrabaty-vaiushchei promyshl. i lesnomu khoziaistvu, 1963. 36 p. (MIRA 17:5)

l. Vsesoyuznyv nauchno-issledovateliskiy i konstruktorskiy institut derevoobrabatyvayushehego mashinostroyeniya.

TSEGEL'SKIY, Vladimir Leopol'dovich; SHUR, D.S., redaktor; KRYNOCHKINA, K.V., tekhnicheskiy redaktor

的现在分词,我们就是这种的人,我们就是我们的人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是我们的人,我们就是我们的人,我们就是这个人,我们就是这个

[Elektrodugovaia svarka. Izd. 2-e, ispr. i dop. Moskva, Vsesoiuznoe uchebno-pedagog. izd-vc, Trudrezervizdat, 1954. 174 p. (MIRA 8:4) (Electric welding)

GLIZMANENKO, Dmitriy L'vovich; SHUR, D.S., redaktor; EGGERT, A.P. tekhnicheskiy redaktor.

[Welding and cutting of metals] Svarka i.rezka metallov. Izd.
3-e perer. i dop.Moskva, Vses.uchebno-pedagog.izd-vo Trudrezervizdat.1955. 431 p. (MLRA 8:9)
(Welding) (Metal cutting)

SEVER'YANOV, Aleksandr Arkad'yevich; RZHAVINSKIY, V.V., redaktor; SHUR, D.S., redaktor; KUZ'MIN, D.G., tekhnicheskiy redaktor

AND THE PROPERTY OF THE PROPER

[A collection of problems and exercises for a general course for mechanics] Sbornik zadach i uprazhneniy po obshchemu kursu slesarnogo dela. Izd. 2-oe, perer. i dop. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1956. 77 p. (MIRA 9:8)

(Machine-shop practice)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550220011-4"

MEDVEDYUK, N.I.; STEPANOV, A.G.; TIKHONOV, V.I., nauchnyy redaktor;
SHUR\_D.S. redaktor; KUZ'MIN, D.G., tekhnicheskiy redaktor

[Copper and tinsmithing] Mednitskie i zhestianitskie raboty.

Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1956.

271 p. (MIRA 10:4)

(Coppersmithing) (Tinsmithing)

SLEPININ, Vladimir Aleksandrovich; LEVINSON, Semen Yakovlevich; SHUR, D.S., redaktor; KUZ'MIN, D.G., tekhnicheskiy redaktor

世纪14公司公司 2001年 20

[Collection of problems and exercises in lathe work] Sbornik zadanii i uprazhnenii po tokarnomu delu. Izd. 2-oe, perer. i dop. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1956. 280 p. (MLRA 10:4) (Turning)

ALEKIN, Lev Yemel yanovich; GLADILIN, Anatoliy Nikolayevich; KRASAVIN, Vasiliy Stepanovich; LUNEV, Fedor Andreyevich; MAKAROVA, Vera Ivanovna; RASTORGUYEV, Ivan Sergeyevich; KHRENOV, Aleksey Dmitriyevich; TSEYTLIN, V.Z., kandidat tekhnicheskikh nauk, redaktor, RZHAVINSKIY, V.V., inzhener; redaktor; SHUR, D.S., redaktor; EGGERT, A.P., tekhnicheskiy redaktor.

STEEL CONTROL OF THE PROPERTY OF THE PROPERTY

[General technology of metals] Obshchaia tekhnologiia metallov.

Moskva, Vse.uchebno-pedagog.izd-vo Trudrezervizdat, 1956. 327 p.

(Metals)

BRUSHTEYN, Boris Yefimovich; DEMENT YEV, Vladimir Ivanovich; RZHAVINSKIY, V.V., inzhener, redaktor; SHUR, D.S., redaktor; OSTRIROV, N.S., tekhnicheskiy redaktor

[Turning] Tokarnoe delo. Izd.4-oe, perer. i dop. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1956. 490 p. (MLRA 9:7) (Turning)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550220011-4"

GLIZMANENKO, Dmitriy L'vovich,; LETNEV, B.Ya., nauchnyy red.; SHUR, D.S., red.; MATUSEVICH, N.L., tekhn. red.

THE PERSON OF TH

[Ges welding and cutting] Gazovaia swarks i rezda metallov. Izd. 3., perer. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1957. 226. (MIRA 11:11)

(Gas welding and cutting)

TSEGEL'SKIY, Vladimir Leopol'dovich; LETMEV, B.Ya., nauchnyy redaktor; SHUR, D.S., redaktor; RAKOV, S.I., tekhnicheskiy redaktor.

PROCESSION OF THE PROCESSION O

[Electric arc welding] Blektrodugovaia svarka. Moskva, Vses. uchebno-pedagog.izd-vo Trudrezervizdat, 1957. 226 p. (MIRA 10:11) (Electric welding)

SOKOLOV, Ivan Georgiyevich; LETNEV, B.Ya., nauchnyy redaktor; SHUR, D.S., redaktor; OSTRIROV, N.S., tekhnicheskiy redaktor.

的数据,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,这个时间,我们也没有一个时间,我们也没有一个时间,我们就是一个

[Handbook for the young foundry worker; on hammer forging] Spravochnik molodogo kuznetsa; po svobodnoi kovke. Izd.2-oe, perer. i dop. Moskva, Vses.uchebnopedagog.izd-vo Trudrezervizdat, 1957. 431 p.

(MIRA 10:5)

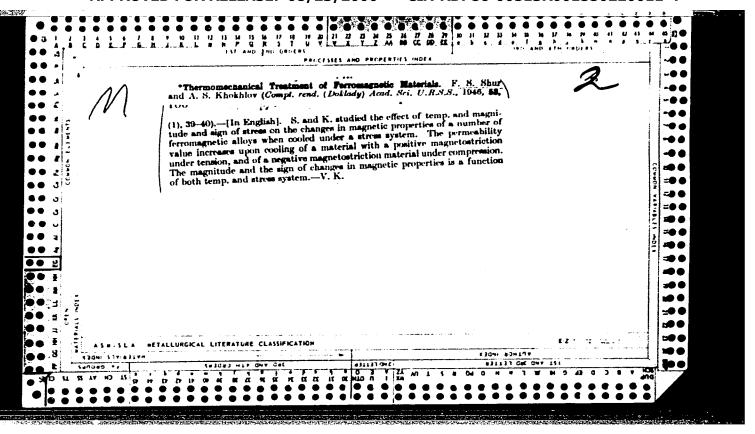
(Forging)

SHUR F.

Dynamics of the accumulation of the grass mass in Alpine meadows with ladysmantle (Alchemilla caucasica Bus.). Izv.AN Arm.SSR.Biol.i sel'khoz.nauki 6 no.11:85-90 '53. (MLRA 9:8)

1. Institut kormodobyvaniya Ministerstva sel'skogo khozyaystva Armyanskoy SSR.

(Kotaykskiy District--Pastures and meadows) (Ladysmantle)



Youth takes up the baton. Sov.torg. 35 no.2:32-34 F '62.

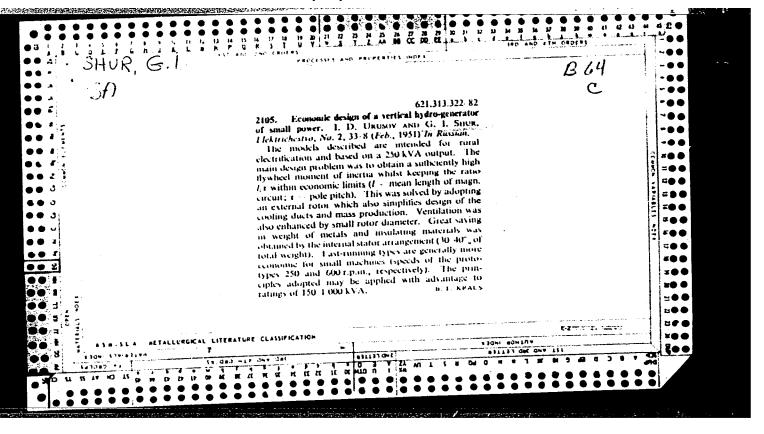
(Gomel-Shoe industry)

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大学是这种种性的,我们就是我们就是**是他们的是一个工程,我们就是一个工程的**是一个工程的,我们就是一个工程的,他们也是一个一个一个一个一个一个一个一个一个一个一个一个

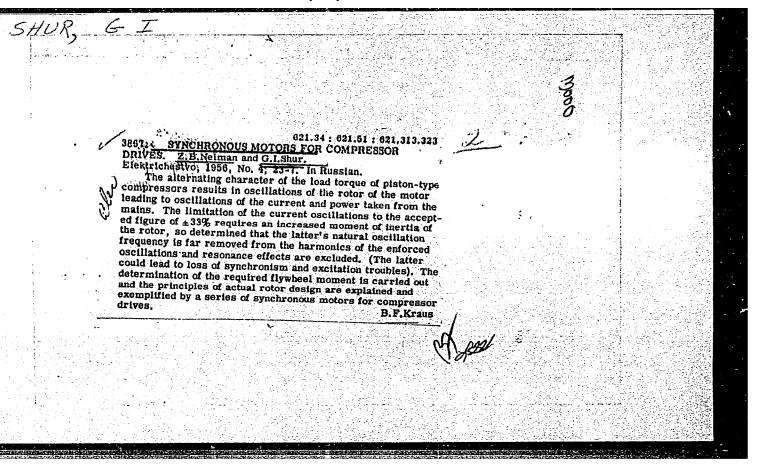
Eight years without medium repairs. Blek.agit.ved.transp.
ne.22:31-34 N '55. (MIRA 9:1)

1.Starshiy mekhanik teplekheda "Khasyan" Dunayskege parekhedstva. (Ships--Maintenance and repairs)



# "APPROVED FOR RELEASE: 08/23/2000 CIA-RD

CIA-RDP86-00513R001550220011-4



是这种的人,我们就是这种的人,这个人,以此时的人,不会是是这个人,这种的人,但我们就是这一个人,我们就是这种的人,我们就是我们的人,我们就是这种的人,我们就是这

AUTHOR:

Golodenberg, S.I. (Engineer) & Shur, G.I. (Engineer) SOV/110-58-10-13/24

TITLE

Problems in the design of hydro-alternator damping windings. (Voprosy konstruírovaniya dempfernykh obmotok gidrogeneratorov)

PERIODICAL

Vestnik Elektropromyshlennosti, 1958, No.10. pp. 51-54 (USSR)

ABSTRACTS

A hydro-alternator commonly has damper windings; they are difficult to design because they are at the periphery of the poles where the speed is highest, and are commonly made of copper. This is not a strong material at the best of times, and is liable to have been softened by brazing operations during assembly. Although the range of size and speed of hydro-alternators is very wide, in practical cases it is only necessary to consider five typical constructions of damper winding, which are discussed in the present article. The authors propose criteria for the selection of the best design in any particular case with the least waste of time. The mechanical load on the damper winding depends, of course, on the generator overspeed, the number of poles and the diameter; these factors were employed in formulating the criteria. The first criterion gives the radial thickness of the damper segment as a function of the mechanical load on the overhung part of the segment. Expressions are then derived for the weight of the overhung part and for the centrifugal forces acting upon it. An expression is also given for the rigidity of the section and finally an expression for the radial thickness of a rectangular section is derived. The segment is commonly mounted on

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CIA-RDP86-00513R001550220011-4"

APPROVED FOR RELEASE: 08/23/2000

SOV/110-58-10-13/24 Problems in the design of hydro-alternator damping windings.

edge if the thickness is greater than 1 cm (Figs.2 - 5) otherwise it is laid flat (Fig.1.). Fig.6. may be used to help in selecting the arrangement of the segment, it is constructed for a thickness of 1 cm, points lying to the left of the curve corresponding to a damper segment laid flat and those to the right, on edge. Cases in which the damper segment is supported only by the damper bars are illustrated in Figs. 2 . The second criterion characterises the magnitude of the centrifugal force of the segment and of the jumper per unit length of pole arc. It is used in selecting the method of fixing the segment. Usually the section of the damper segment is half the total section of the damper bars on a pole, which approximately proportional to the pole pitch. Therefore, the weight of the damper segment and jumper are proportional to the square of the pole pitch. An expression is given for the centrifugal force on a damper segment and a new parameter is introduced that is proportional to this force. Permissible ranges of this parameter are then stated. When the damper winding may get very hot, for instance because there is a rectifier load, the construction of Fig. 5. is preferable to Fig. 4. Various special features of damper winding design are then considered. The different constructions of jumper that are used are illustrated in Fig.7. and the method of selection in particular cases is described. The jumpers are secured by ordinary steel bolts with zinc-plated steel washers. The designs

Card 2/3

CIA-RDP86-00513R001550220011-4"

APPROVED FOR RELEASE: 08/23/2000

Problems in the design of hydro-alternator damping windings. SOV/110-58-10-13/24

of damper winding that have been considered are intended for use in hydro-alternators that do not employ a synchronous starting. When a synchronous starting is used the damper winding gets very hot and allowance must be made for expansion effects. There are 7 figures.

SUBMITTED: July 16, 1957

1. Generators--Design 2. Generators--Properties 3. Copper wire --Effectiveness 4. Mathematics

Card 3/3

SHMETER, S.M.; SHUR, G.N.

Electrometeorograph for observations by airplanes. Trudy TSAO no.22:
3-8 57.

(Meteorological instruments) (Aeronautics in meteorology)

THE PROPERTY OF THE PROPERTY O

SHUR, G.N.

也是是**是我们的对象的,我就是我们的国际国际的现在对外的对象的**是是这种对于在这种的的现在分词

Determining vertical velocities of turbulent gusts during observations from airplanes. Trudy TSAO no.22:9-16 57. (MIRA 11:4) (Winds) (Meteorological instruments) (Aeronautics in meteorology)

80789 SOV/169-59-6-5971

3.5000

Franslation from: Referativnyy zhurnal, Geofizika, 1959, Nr 6, p 83 (USSR)

AUTHOR:

Shur, G.N.

TITLES

A Method and Device for Determining Certain Characteristics of Atmospheric Turbulence by Aircraft

PERIODICAL:

Tr. Tsentr. aerol. observ., 1958, Nr 24, pp 32 - 38

ABSTRACT:

The author suggests a method of computing automatically the vertical wind pulsations with the aid of an electrointegrator, using the load factor of an aircraft as a basis. The electric circuit (a passive electric network) is discussed. It may be used for numerical calculations of the vertical wind pulsations from the formulae W = a  $\Delta$  n, W = v<sub>z</sub> + b  $\Delta$  n, where W is the vertical wind velocity in m/sec, v<sub>z</sub> is the vertical velocity of the center of gravity of the aircraft in m/sec,  $\Delta$  n is the vertical load factor of the aircraft in fractions of g, a and b

Card 1/2

are certain constants depending on the aircraft characteristics

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SOV/169-59-6-5971

A Method and Device for Determining Certain Characteristics of Atmospheric Turbulence by Aircraft

height and velocity of flight. The author shows that, based on the load factor of the aircraft, more precise data on the vertical wind velocity can be obtained, when using an amplifier with negative derivative feedback in the integrator circuit. The method suggested will eliminate the cumbrous numerical calculations necessary for obtaining vertical wind pulsation data from the accelerograph records.

S.F. Khachatryan

Y

Card 2/2

#### PHASE I BOOK EXPLOITATION SOV/4292

Tsentral'naya aerologicheskaya observatoriya

OF ALAPONIA MENTANDE AND PROPERTY OF THE PERSON OF LAND ASSESSMENT OF A LEGISLAN.

- Trudy, vyp. 31 (Transactions of the Central Aerological Observatory, No.31)
  Moscow, 1959. 91 p. 650 copies printed.
- Additional Sponsoring Agency: USSR. Glavnoye upravleniye gidrometeorologicheskoy sluzhby.
- Ed.: (Title page): S.M. Shmeter; Ed. (Inside book): M.I. Sorokina; Tech. Ed.: T. Ye. Zemtsova.
- FURPOSE: This publication is intended for aerologists and aircraft instrument designers.
- COVERAGE: This collection of 11 articles deals mainly with the problem of finding the best method of measuring atmospheric turbulence from aircraft. A detailed description of the aerological instruments used for this purpose is given. Wind observations by means of radio theodolite is discussed. References accompany individual articles.

Card 1/3

Transactions of the Central Aerological Observatory, No.31 SOV/4292	
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Wefimov, P.L., and A.M. Khachatryan. Accuracy of the Determination of Wind Direction and Velocity at Different Altitudes by Means of the "Malakhit" Radio Theodolite	83
AVAIIABLE: Library of Congress	'I'a I
Card 3/3	JA/dwm/mas 10-13-60

31306 S/124/61/000/010/041/056 D251/D301

AUTHOR:

10 6300

Shur, G.N.

TITLE:

Obtaining the true form of an individual turbulent

gust on the overload of an aircraft

PERIODICAL:

Referativnyy zhurnal. Mekhanika, no. 10, 1961, 99, abstract 10 B684 (Tr. Tsentr. aerol. observ. 1960,

no. 34, 96, 103)

TEXT: A method is given for obtaining the distribution of the vertical velocity of the wind in a single gust along the trajectory of an aircraft. On the continuous record of the vertical overload a position is chosen where a single gust is described. By means of a magnetophone this position is reproduced many times, decoded, and applied to a frequency analyzer on whose input the transitional transmission frequency of the given aircraft is electrically introduced. The result gives the modulus of the spectrum of vertical overload. The phase spectrum is calculated from the obtained ampli-

Card 1/2

只是这种自己,**企图的证明的对象的现在对数据的**是是这种证明的。

31306 S/124/61/000/010/041/056 D251/D301

Obtaining the true form...

tude-frequency on the basis of Bode's theorem by numerical methods. Knowledge of the complete spectrum may be obtained by means of the Fourier transformation of the original process with respect to time on the distribution of the vertical velocity along the trajectory. If the automation of the series of numerical operations is not considered, this method is connected with complex calculations and the carrying out of graphical operations. Abstracter's note: Complete translation

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Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550220011-4"

SHUR, G. N.

Cand Phys-Math Sci - (diss) "Experimental studies of turbulency in the free atmosphere with the aid of airplanes." Leningrad, 1961. 11 pp; (Main Geophysical Observatory imeni A. I. Voyeykov, GUGMS under the Council of Ministers USSR, Central Aerological Observatory GUGMS under the Council of Ministers USSR); 200 copies; price not given; (KL, 10-61 sup, 206)

CIA-RDP86-00513R001550220011-4" APPROVED FOR RELEASE: 08/23/2000

SHUR, G.N.

Experimental studies of the energy spectrum of atmospheric turbulence. Trudy TSAO no.43:79-90 62. (MIRA 15:7) (Atmospheric turbulence)

BELYAYEV, V.P.; SHUR, G.N.

Turbulence measurement at high altitudes by means of sounding balloons. Trudy TSAC no.43:91-98 162. (MIRA 15:7) (Atmospheric turbulence) (Radiosondes)

PINUS, N.Z., doktor flz.-matem. nauk, prof.; SOUR, G.N., kand. fiz.-matem. nauk; VINIICHENKO, N.K.; CHERNYCH, V.I.

Basic principles of the automatization of processing airplane meteorological information. Meteor. i gidrol. no.9:3-9 '64.

1. TSentral'naya aerologicheskaya observatoriya.

L 10115-65 EWT(1)/FGC ASD(f)-2/AFETR/ESD(t) GW

ACCESSION NR: AT4045514

s/2789/64/000/053/0043/0053

AUTHOR: Shur. G. N.

B

TITLE: Spectral structure of turbulence in the free atmosphere as indicated by aircraft investigations

SOURCE: Tsentral'naya aerologicheskaya observatoriya. Trudy\*, no. 53, 1964. Dinamika atmosfery\* (Atmospheric dynamics), 43-53

TOPIC TAGS: atmospheric turbulence, meteorology, aviation meteorology, turblent gust, air turbulence spectral structure, aircraft bumping

ABSTRACT: On the basis of an analysis of experimental data obtained during a study of turbulence aboard a TU-104 aircraft, the author discusses the energy spectrum of the vertical component of the velocity of turbulent gusts in a temperature-stratified atmosphere. The article also presents information on the relation beatween the spectra of the vertical and horizontal components in the case of a stably stratified atmosphere. It is shown that it is possible to determine the dispersion of velocities of turbulent gusts in a broad range of scales using data obtained from measurements of overleads in a narrow range of frequencies (wave numbers). The following are discussed in detail: 1) spectral characteristics of the vertical component of turbulent pulsations of wind velocity; 2) the relations between the

L 10415-65 Accession NR: At4045514

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energy spectra of the vertical and horizontal components of pulsating city; 3) determination of the integral characteristics of turbulence in a broad range of scales, using data on overloads in a narrow range of frequencies. This detailed consideration reveals that the form of the spectrum of the vertical component of the velocity of turbulent gusts is dependent on atmospheric stratification. model proposed in this article is in good agreement with experimental data and theoretical conclusions obtained by other investigators. The spectral curve of the horizontal component obtained by the author, however, is in need of experimental confirmation. The author has obtained experimental confirmation of the previously established fact that there is a coincidence of the turbulence spectrum at scales up to 600-1,000 m and the "-2/3 law"; this has made it possible to obtain a simple solution of the problem of determining the dispersion of velocities of gusts. It is noted that a further study should be made of deviations of the curves of spectral density from the "-2/3 law" in the region of large scales. In such a study spectral measurements must be accompanied by correction measurements of the thermodynamic parameters of the free atmosphere, especially the gradients of these parameters. Determination of the relationships between the averaged characteristics of the temperature and wind fields and the spectral characteristics of the fluctuations of these fields will make it possible to better understand certain problems in the dynamics and energy of the atmosphere. "In conclusion the author wishes to thank M. Kulik, A. F. Yepishev, V. S. Aleksandrov, N. A. Titov, and V. V. Kozlov,

specialists of the <u>GosNil GVF</u> , for organizing and carrying out the complex flight experiment." Orig. art. has: 16 formulas and 4 figures.				
	naya aerologicheekaya observatoriy			
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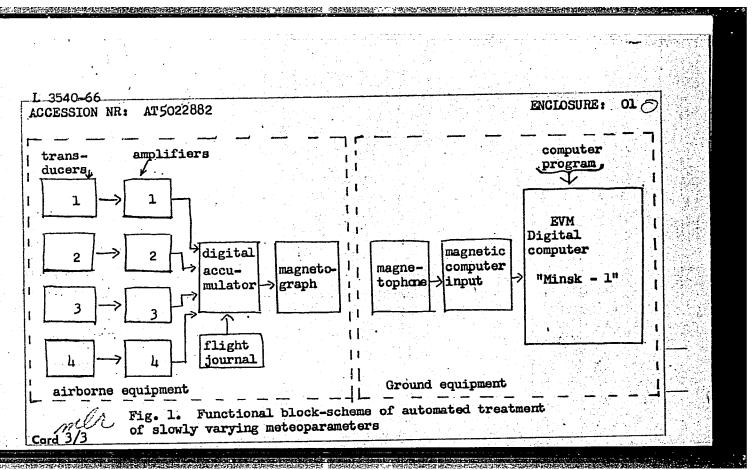
BELYAYEV, V.P.; BELTADZE, T.G.; LITOVCHENKO, V.P.; LITVINOVA, V.D.; LOMINADZE, V.P.; PINUS, N.Z.; SOFIYEV, Ye.M.; SHUR, G.N.

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Some results of experimental investigations of atmospheric turbulence using radiosondes. Trudy TSAO no.54:4-52 '64. (MIRA 17:6)

L 3540-66 EWT(d)/EWT(1)/EEC(k)-2/FCC/EWP(1) IJP(c) BB/GG/GW	
ACCESSION NR: AT5022882 UR/2789/65/000/063/0077/0084	
35 551.508 4D	
AUTHORS: Vinnichenko, N. K.; Pinus, N. Z. (Doctor of physico-mathematical	
sciences); Chernysh, V. I.; Shur, G. N.	
TITLE: Principles of automatic treatment of aeroplane meteoinformation	
SOURCE: Tsentral'naya aerologicheskaya observatoriya. Trudy, no. 63, 1965. Voprosy dinamiki atmosfery (Problems of atmospheric dynamics), 77-84	
TOPIC TAGS: airborne data processor, airborne equipment, meteorological phenomenon, meteorology, infrasonic spectremetry	
ABSTRACT: To expedite the analysis of meteorological information gathered by an	
aeroplane, the authors developed an integrated method for treating such data,	
employing digital and analog computers, an electronic analyzer of stationary	
random processes, and an infrasonic spectrometer. Block-diagrams for the treat- ment of slowly varying meteoparameters and pulsating parameters are presented.	
(see Fig. 1 on the Enclosure). It is concluded that with the aid of the digital	
computer it should be possible to make certain selections and to perform the	
Card 1/3	
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L 3540-66 ACCESSION NR: AT5022882	- f		3
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ASSOCIATION: Tsentral'naya as	rologicheskaya observa	toriya (Central Aerologica	
SUBMITTED: 00	ençl: Ol	SUB CODE: ES	
NO REF SOV: COB	OTHER: OOO		



L. 5057-66 EWT(d)/EWT(1)/FCC/EWP(1) IJP(c) BB/GG/GW

ACC NR: AT5022884 SOURCE CODE: UR/2789/65/000/063/0096/0103

AUTHOR: Vinnichenko, N. K.; Shur, G. N.

44.55 44.55

ORG: Central Aerological Observatory (Tsentral'naya aerologicheskaya observatoriya)

TITLE: Multichannel airborne code converter 160,44

SOURCE: Tsentral'naya aerologicheskaya observatoriya. Trudy, no. 63, 1965. Voprosy dinamiki atmosfery (Problems of atmospheric dynamics), 96-103

TOPIC TAGS: airborne equipment, pulse modulation, pulse coding, pulse rate, frequency

ABSTRACT: A multichannel airborne code converter has been designed for continuous synchronous pulse-frequency coding of time-varying meteorological parameters in a form suitable for magnetic recording. Circuit design and construction of the device are described in considerable detail. Laboratory tests have shown that the time constant does not exceed 0.005 sec, even though the circuits of some channels, particularly channels 1—5, have inertial elements. In the frequency range employed, even the first five channels are practically inertialess. The dependence of channel output frequency on input signal voltage is also practically linear. Thus, despite the essentially nonlinear operation of pulse-frequency modulation, the device is linear and inertialess, and random signals (time-varying parameters) passing through the code converter do not change their statistical characteristics. Total conversion error for

**Card 1/2** 

UDC: 551.508

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ach channel under sta	tic conditions d	oes not exceed	±2% with a supply		1
uation of $\pm 6\%$ . Orig.	art. has: 2 fi	gures and 1 for	mula.	[04]	
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L 20967-66 EWT(1)/FCC GW

ACCESSION NR: AT5022885

UR/2789/65/000/063/0104/0108

551.508

AUTHOR: Shur, G. N.

1.5 B+/

TITLE: A universal self-balancing bridge for an airborne resistance thermometer

SOURCE: Tsentral'naya aerologicheskaya observatoriya. Trudy, no. 63, 1965. Voprosy dinamiki atmosfery (Problems of atmospheric dynamics), 104-108

TOPIC TAGS: airborne equipment, resistance thermometer, self adaptive control, temperature measurement, measuring instrument / EM TSAO electric mediograph, DID 0.5 two phase induction motor b

ABSTRACT: A universal self-balancing bridge was constructed for measuring air temperatures in an airplane, using a resistance thermometer. The device has a linear characteristic, sufficient power output to operate a digital magnetic recorder, and eliminates many of the problems associated with the unbalanced bridge. The null element of the bridge is an electronic amplifier with a high input resistance and sensitivity, permitting the system to operate on small currents and reducing the heating problem. A highly stable power supply is not required. In Fig. 1 on the Enclosure, R<sub>t</sub> is the resistance thermometer, R<sub>1</sub> and R<sub>2</sub> Card 1/3

L 20967**-**66

ACCESSION NR: AT5022885

resistors, and the fourth leg contains a potentiometer Rpl and an adjustment resistor Ru connected in series. When the bridge is unbalanced, a voltage is sent to the input of the servoamplifier (SU) which controls the DID-0.5 two-phase induction motor. This motor moves the slide of Rpl, restoring the balance. A second potentiometer Rp2 (on a common axis with Rp1) can supply the voltage for the automation system. R2 and Ru permit the adjustment of the midpoint temperature to any desired value, and the thermometer will read to 500 above or below this value. Direct amplification of the DC voltages is not feasible. Laboratory tests (with a resistance box replacing the  $R_t$ ) show that the instrument's sensitivity = + 0.120, the correction time for self-balancing with a 20 step change in temperature is 1 sec, and the maximum random error is  $< \pm 0.5\%$ . Orig. art. has: 2 figures and 7 formulas.

ASSOCIATION: Tsentral'naya aerologicheskaya observatoriya (Central Aerological Observatory)

SUBMITTED:

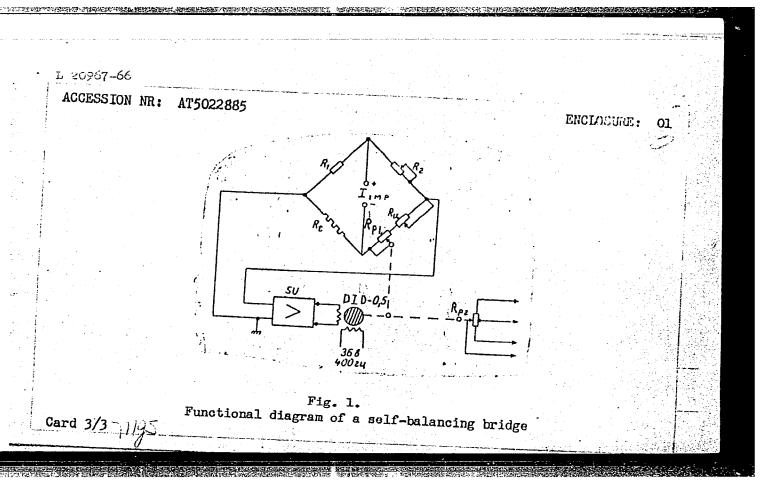
ENCL: O1

SUB CODE: ES, TD

NO REF SOV:

Card 2/3

OTHER: 000



L 11323-67 EMP(k)/EMT(d)/EMP(h)/EMP(1)/EMP(v)

ACC NR: AR6017632

SOURCE CODE: UR/0272/66/000/001/0110/0110

AUTHOR: Shur, G. N.

TITLE: A universal self-balancing bridge for an aircraft resistance thermometer

SOURCE: Ref. zh. metrol. i izmerit. tekhn., Abs. 1.32.838

REF SOURCE: Tr. Tsentr. aerod. observ., vyp. 63, 1965, 104-108

TOPIC TAGS: resistance thermometer, resistance bridge, auxiliary aircraft equipment

ABSTRACT: The author proposes a universal self-balancing bridge designed for measuring ambient temperature/Of an aircraft in view of the considerable error involved in automatic registration and analysis of measurement results in the most widely used unbalanced bridge design. The proposed balanced-bridge or zero measurement method is based on compensation of imbalance in the measurement diagonal of the bridge by changing the resistance of one of the arms when the resistance of the temperature gauge changes. A functional circuit is described for this type of balanced bridge with automatic zero compensation. A schematic diagram of the instrument is given together with its operating principle. The device requires a 115 vac 40 cps power supply, has a bridge sensitivity of ±0.12°C, linear characteristics and a rather low power output so that it can be used in a digital magnetic recording system for moderate temperatures. The maximum random error of the instrument with regard to the class of accuracy of the potentioneter used is less than ±0.5%. [Translation of abstract]

SUB CODE: 13, 09 O

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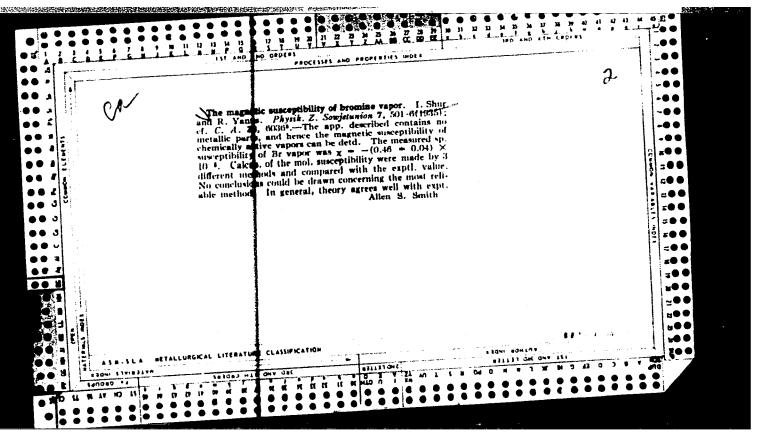
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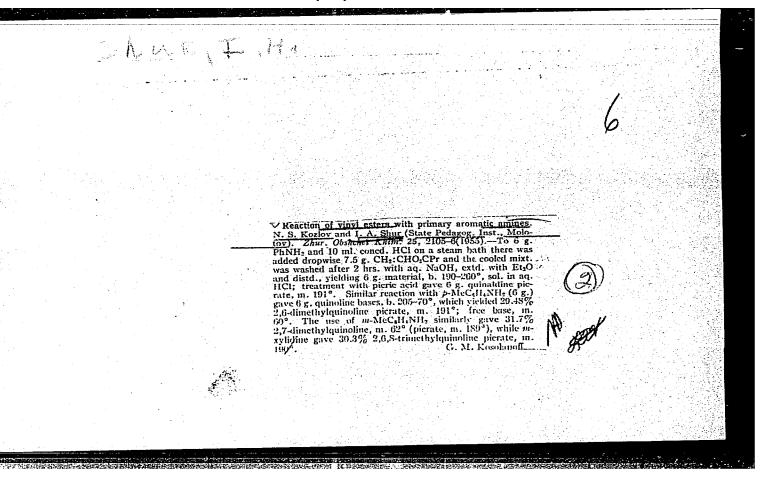
SHUR, I.

First stage. Kryl. rod. 16 no.9:16 S 165.

(MIRA 18:12)

1. Starshiy instruktor Saratovskogo oblastnogo komiteta Vsesoyuznogo dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu SSSR.





KOZLOV, N.S., (Molotov); SHUR, I.A., (Molotov).

Method for teaching the phenomenon of isomerism in a secondary school. Khim.v shkole 11 no.5:40-42 S-0 \*56. (MLRA 9:11) (Isomers-Study and teaching)

SHUR, I., professor.

Utilizing the energy of radioactive radiation for sterilizing meat and meat products. Mias.ind.SSSR 27 no.2:60-63 '56. (MIRA 9:8) (Meat--Sterilization)

5(3) AUTHORS: Kozlov, N. S., Shur, I. A.

sov/20-123-1-27/56

TILE:

Catalytic Synthesis of 4-Methyl-2-Phenyl-5,6-Benzoquinoline and 2,4-Diphenyl-5,6-Benzoquinoline and Their Derivatives (Kataliticheskiy sintez 4-metil-2-fenil-5,6-benzokhinolina i 2,4-difenil-5,6-benzokhinolina i ikh proizvodnykh)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 1, pp 102-104

(USSR)

ABSTRACT:

It is known that 5,6-benzoquinoline and its derivatives are produced by means of methods of synthesis commonly used for produced by means of methods of symmetry commonly described quinoline compounds (Ref 1). But even the most simple compound quinoline compounds (Ref 1). amongst them (Döbner (Debner) method, Refs 2, 3) cannot be regarded as perfect since the 2 steps of reaction reduce the yield and complicate the operation. Some further, previously developed methods (Refs 4-7) are insufficient as well. The 5,6-benzoquinoline nucleus is a constituent of the physiologically active ergot alkaloid and other plants. It might therefore be assumed that several derivatives of the 5,6-benzoquinoline ought to possess bactericidal properties.

Card 1/3

SOV/20-123-1-27/56 Catalytic Synthesis of 4-Methyl-2-Phenyl-5,6-Benzoquinoline and 2,4-Diphenyl-5,6-Benzoquinoline and Their Derivatives

For that reason, the synthesis under review is of scientific and practical interest. In performing the present study the authors were led by theoretical conceptions which were already earlier reported by the first mentioned author (Ref 8). The present tests have confirmed the correctness of the mentioned assumptions. The Schiff bases from 2-naphthylamine and from aromatic aldehydes (benzaldehyde, aubepine, m- and p-nitrobenzaldehyde, p-dimethyl-amino benzaldehyde) actually react under adequate conditions with acetone and acetophenone and produce the two compounds mentioned in the title and their p-methoxy-, p-dimethylamino- as well as i- and p-nitro derivatives. Most of these compounds were obtained by the authors for the first time. As active catalyst 2-naphthylamine hydrochloride was used. The mechanism of the reaction is illustrated by schemes and equations. It was also experimentally confirmed. For this purpose, the authors have elaborated a modification of the synthesis of  $\beta$ -2-naphthyl-amino- $\beta$ -phenylpropiophenone. The latter was subjected to cyclization and formed 1,3-diphenyl-5,6-benzoquinoline. Finally the method

Card 2/3

Catalytic Synthesis of 4-Methyl-2-Phenyl-5,6- SOV/20-123-1-27/56 Benzoquinoline and 2,4-Diphenyl-5,6-Benzoquinoline and Their Derivatives

is described. There are 1 table and 10 references, 4 of which

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

are Soviet.

ASSOCIATION: Permskiy sel'skokhozyaystvennyy institut

(Perm Institute of Agriculture)

PRESENTED: June 14, 1958, by A. A. Balandin, Academician

SUBMITTED: April 24, 1958

Card 3/3

5(3) AUTHORS:

Kozlov, N. S., Shur, I. A.

SOV/79-29-8-58/81

TITLE:

Catalytic Condensation of the Schiff Bases With Organic Compounds. I. Synthesis of  $\beta$ -Arylaminoketones and Their Hydra-

mine Cleavage

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 8,

pp 2706 - 2709 (USSR)

ABSTRACT:

Taking into consideration the inadequately worked out syntheses and properties of the  $\beta$  -aminoketones according to references 1-5, the authors describe in the present paper a very convenient method for the synthesis of the  $\beta$  -arylaminoketones which is based on the reaction of the Schiff bases with aliphatic-aromatic ketones in the presence of an acid catalyst(the hydro-

chloride amine contained in the Schiff base):

Card 1/2

By this way a number of new compounds belonging to this class could be synthesized. The assumption repeatedly found in publi-

Catalytic Condensation of the Schiff Bases With Organic SOV/79-29-8-58/81 Compounds.I. Synthesis of  $\beta$ -Arylaminoketones and Their Hydramine Cleavage

cations that the \$\beta\$-aminoketones easily cyclize into the respective quinoline bases according to scheme 2 (Ref !) holds in the case of Ar= \$\beta\$-naphthylamine only. In the case of Ar=phenyl the cyclization of the \$\beta\$-arylaminoketones is subjected to a hydramine cleavage (Refs 4,6,7). Attempts aiming at a cyclization of the \$\beta\$-arylaminoketones synthesized by the authors by means of melting them down with zinc chloride and heating them with hydrochloric acid did not succeed, since during the heating process a decomposition into the primary amine and benzalacetophenone takes place (Scheme 3). This process is interpreted and more thoroughly explained by means of formula (A) as a consequence of a weakening of the -NH-CH-C6H8 bond in the molecule of \$\beta\$-arylaminoketone due to polarization. There

are 2 tables, and 8 references, 4 of which are Soviet.
ASSOCIATION: Permskiy gosudarstvennyy sel'skokhozyaystvennyy institut (Perm' State Agricultural Institute)

SUBMITTED: November 4, 1958

Card 2/2

5/153/60/003/004/022/040/XI B020/B054

AUTHORS:

Kozlov, N. S., Shur, I. A.

The Mechanism of Synthesis of 2-Phenyl-5,6-benzoquinoline

TITLE:

and Its Derivatives

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol. 3, No. 4,

pp. 675 - 679

TEXT: One of the authors developed (Refs. 3,4) a new method of synthesizing the compound mentioned in the title and its derivatives by means of co-condensation of 2-naphthyl amine with aromatic aldehydes and acetylene. This synthesis is based on the concept of an interaction of two Schiff's bases forming in the process, and on the cyclization of the resulting intermediate into the  $\alpha$ -position of the naphthalene nucleus. On the basis of these concepts, the authors succeeded in synthesizing the compound mentioned in the title and its derivatives by a method developed by them in two variants. The first variant is based method developed by them in two variants: The lifts variant is based on the condensation of Schiff's bases obtained from 2-naphthyl amine

Card 1/3

The Mechanism of Synthesis of 2-Phenyl-5,6-benzoquinoline and Its Derivatives

S/153/60/003/004/022/040/XX B020/B054

and aromatic aldehydes with ketones to form \$-aminoketones. The second variant is based on the condensation of Schiff's bases with aldehydes containing mobile hydrogen atoms to form \$\text{\$\text{\$-}}\ambinout aldehydes. Both reactions proceed in the presence of 2-naphthyl-amine chlorohydrate. Very different derivatives of 2-phenyl-5,6-benzoquinolinol can be obtained by introduction of homologs and derivatives of acetone and acetophenone instead of the latter together with Schiff's bases, as well as other aldehydes instead of acetaldehyde. Another possibility of synthesizing the compound mentioned is based on the condensation of 2-naphthyl amine with unsaturated ketones and diketones. The authors describe the products obtained in the condensation of 2-naphthyl amine with benzal acetone, dibenzoyl methanol, and benzal acetophenone, and derive the reaction mechanism. They describe the synthesis of the following compounds: 2-phenyl-5,6-benzoquinoline, 4-methyl-2-phenyl-5,6-benzoquinoline, β-(2-naphthyl-amino)-β-phenyl propiophenone, 2,4-diphenyl-5,6-benzquinoline, 2-(3-nitro-phenyl)-4-phenyl-5,6-benzoquinoline, and 3 (4-nitro-phenyl)-4-phenyl-5,6-benzoquinoline, as well as the cyclization of  $\beta$ -(2-naphthyl-amino)- $\beta$ -phenyl propiophenone to

Card 2/3

KOZLOV, N.S.; SHUR, I.A.

Catalytic condensation of Schiff bases with methyl-p-tolyl ketone. Part 6. Zhur.ob.khim. 30 no.8:2492-2496 Ag 60. (MIRA 13:8)

1. Permskiy sel'skokhozyaystvennyy institut. (Schiff bases) (Ketone)

KOZLOV, N.S.; SHUR, I.A.

Catalytic condensation of Schiff bases with organic substances. Part 3: Mechanism of the synthesis of  $\beta$ -arylamino ketones. Zhur.ob.khim. 30 no.8:2746-2748 Ag 160. (MIRA 13:8)

1. Permskiy sel'skokhozyaystvennyy institut. (Schiff bases) (Ketones)

BOGORODSKAYA, M.T., inzh.; SHUR, I.A., inzh.

Study of the operation of injection slotted burners in the L-1 and L-2 water heaters. Sbor. rab.Lengiproinzhproekta:51-56 0 '61.

(MIRA 18:1)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550220011-4"

KOZLOV, N.S.; SHUR, I.A.

Catalytic condensation of Schiff bases with nethyl-d-naphthyl ketone. Izv.vys.ucheb.zav.;khim.i khim.tekh. 4 no.4:614-616 '61.

(MIRA 15:1)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550220011-4"

KOZLOV, N.S.; SHUR, I.A.

Synthesis of B-arylamino ketones and their hydramine cleavage.

Izv.vys.ucheb.zav.;khim.i khim.tekh. 5 no.2:342-345 '62.

(MIRA 15:8)

1. Permskiy pedagogicheskiy institut, kafedra khimii. (Ketones) (Amines)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550220011-4"

SHUR, Isaak Adrivelevich; ROSHCHINA, V.N., nauchr. red.; SEJAL', Z.G., vod. red.

[Methods for increasing the safety of boilers operating on gas fuel] Sredstva povyshenila dezopasnosti raboty gazifitsirovannykh kotel'nykh. Leningrad, Nedra, 1964. 185 ;. (Mich 17:12)

L 11,531-66 EWT(d)/EWT(m)/EPF(n)-2/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(1)  ACC NR. AP6005278 IJP(c) JD/WW/HW/JG/SOURCE CODE: UR/0413/66/000/001/0017/0017  DJ  INVENTOR: Moskalenko, N. D.; Novikov, O. K.; Pavlov, V. V.; Garibov, G. S.;  Makhnovskiy, V. S.; Zhizhina, T. S.; Rakhinskiy, G. N.; Shur, I. A.  ORG: none  TITLE: Continuous mill for rolling aluminum strips from liquid metal. Class 7,  No. 177395	
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 7  TOPIC TAGS: aluminum, aluminum strip, aluminum strip rolling, continuous rolling, rolling mill, liquid metal rolling	
ABSTRACT: This Author Certificate introduces a continuous mill for rolling aluminum strips from liquid metal. The mill comprises a continuous casting machine with a mold formed by a metal belt and a wheel, a raw strip guiding stand, a planetary mill and a finishing stand. In order to synchronize the casting and rolling rates, the	
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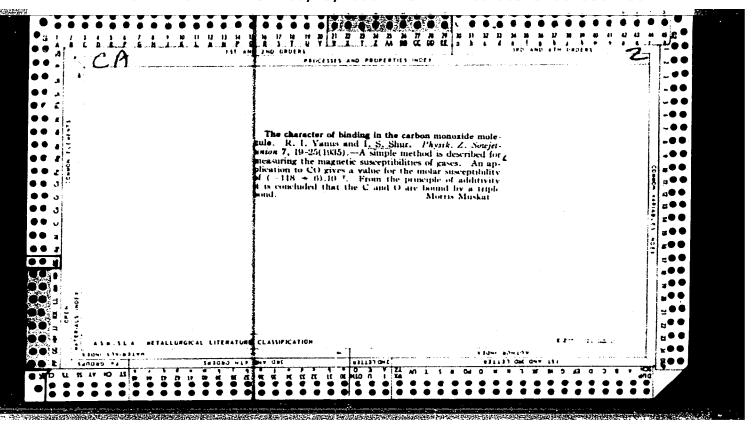
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1 - Ladle for molten aluminum; 2 - mold wheel; 3 - metal belt; 4 - guiding stand; 5 - planetary stand; 6 - loop former; 7 - finishing stand.	iven by the lower roll of the guiding stand by means	
1 - Ladle for molten aluminum; 2 - mold wheel; 3 - metal belt; 4 - guiding stand; 5 - planetary stand; 6 - loop former; 7 - finishing stand.  of a metal belt (see Fig. 1). Orig. art. has: 1 figure. [WW]		
2 - mold wheel; 3 - metal belt; 4 - guiding stand; 5 - planetary stand; 6 - loop former; 7 - finishing stand.  of a metal belt (see Fig. 1). Orig. art. has: 1 figure. [WW]	Fig. 1. Continuous mill	
stand; 6 - loop former; 7 - finishing stand.  of a metal belt (see Fig. 1). Orig. art. has: 1 figure. [WW]	1 - Ladle for molten aluminum;	
stand; 6 - loop former; 7 - finishing stand.  of a metal belt (see Fig. 1). Orig. art. has: 1 figure. [WW]	4 - guiding stand: 5 - planetary	
of a metal belt (see Fig. 1). Orig. art. mas. I light.	stand; 6 - loop former; 7 - finishing	
	rig. art. has: 1 figure. [WW]	
SUB CODE: 11, 13/ SUBM DATE: 06May63/ ATD PRESS: 9/75		
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SHUR, I.S., inzhener.

· 中国的证明,在1995年,1996年,19

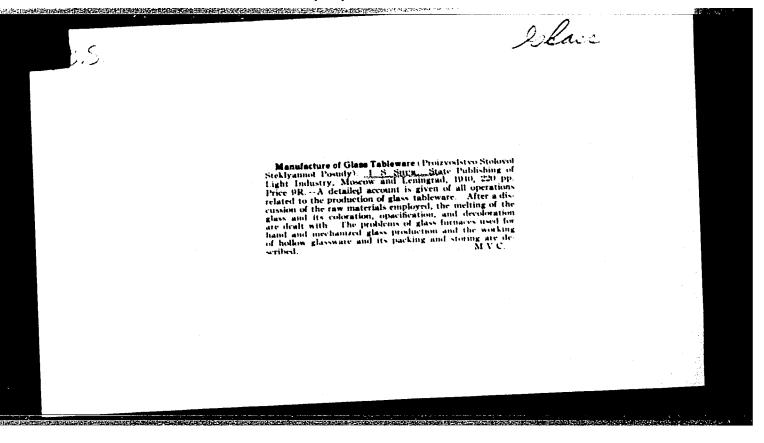
Effectiveness of continuous work schedules in lumbering. Mekh.trud.rab. 8 no.7:41-42 O-N 154. (MLRA 8:1) (Lumbering)

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#### "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550220011-4



MYASNIKOV, K.A.; SHUR, I.S.; GLADYSHEVA, S.S., redaktor; LYUDKOVSKAYA, H.I., tekhnicheskiy redaktor

的。在1900年的日本大学的日本人的特殊的**,在1900年的**中国的特殊的特殊的特殊的。

[Principles governing the designing of glass factories for a diploma]
Osnovy diplomnogo proektirovaniia stekol'nykh zavodov. Moskva, Gos.
izd-vo lit-ry po stroit. materialam, 1955. 471 p. [--- Collection
of designs; a supplement to the text] Al'bom chertezhei; prilozhenie
k uchebniku. 1955. 57 p.

(Glass manufacture--Study and teaching)

SHUR, J. S., and ABELS, V. R., (Sverdlovsk)

"Investigation on the Magnetic Structure of silicon-Iron Crystals by Means of Powder Patterns," a paper submitted at the International Conference on Physics of Magnetic Phenomena, Sverdlovsk, 23-31 May56.

The manufacture of 'diatreton' glass objects thould be revived.

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(Glassware, Ancient)

(Glass blowing and working)

MYASNIKOV, Konstantin Akimovich, dotsent; SHUR, Ivan Samuilovich, dotsent; REZNIKOV, M.I., nauchnyv red.; KIZEL SHTXYN, D.S., red.izd-va; TEMKINA, Ye.L., tekhn.red.

THE PROPERTY OF THE PROPERTY O

[Mechanization of industrial processes in glass plants] Mekhanizatsiia proizvodstvennykh protsessov na stekol'nykh zavodakh.

Moskva, Gos.izd-vo lit-ry po stroitel'stvu, arkhitekture i stroit.

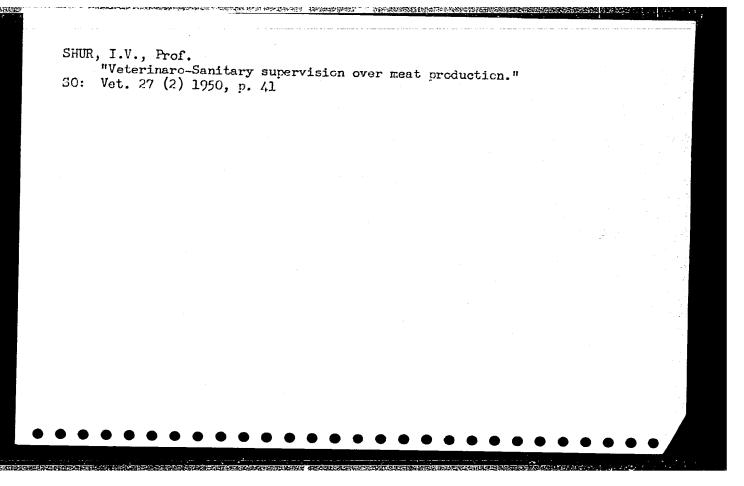
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(SAIMONELLA PARATYPHI)

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[Manual on veterinary inspection of slaughtered animals and meat production] Rukovodstvo po veterinarno-sanitarnoi ekspertize produktov uboia zhivotnykh i gigiene miasnogo proizvodstva. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 687 p. (MIRA 12:10) (Veterinary hygiene) (Meat inspection)

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SHUR, I. V., YAKOVLEV, L. A.1, KUKHARKOVA, L. L., FREYDLIN, E. M., PEROVA, P. V. IL'YASHENKO, M. A., 3, KRASIL'NIKOV, R. I., FITINGOF, S. N., 4, TRUBOLYUBOVA, G. B., RUSANOV, R. S., KONUSPAYEVA, U. S., MITROFANOV, V. N., and KAPHRNAUMOVA, M. P., 5. (1Professors), (2Director of the Laboratory of Microbiology and Veterinary Sanitary Inspection of VMIIMP [All-Union Scientific Research Institute of the Meat Industry), (3 Candidates of Veterinary Sciences), (4 Senior Scientific Workers), (5 Junior Scientific Workers).

"Sanitary Appraisal of Mutton from Sheep Infected by Brucellosis." Veterinariya vol. 38., no. 11., November 1961., p. 60

KUKHARKOVA, L.L., starshiy nauchnyy sotrudnik; ADUTSKEVICH, V.A., kand. veterin. nauk; EOYARSHINOV, P.K., kand. veterin. nauk; PEROVA, P.V., kand. veterin. nauk; SHUR, I.V., prof., konsul'tant

Sanitary examination of meat and meat products from animals affected by listerellosis and its diagnosis. Trudy VNIIMP no.11:178-193 '62. (MIRA 18:2)

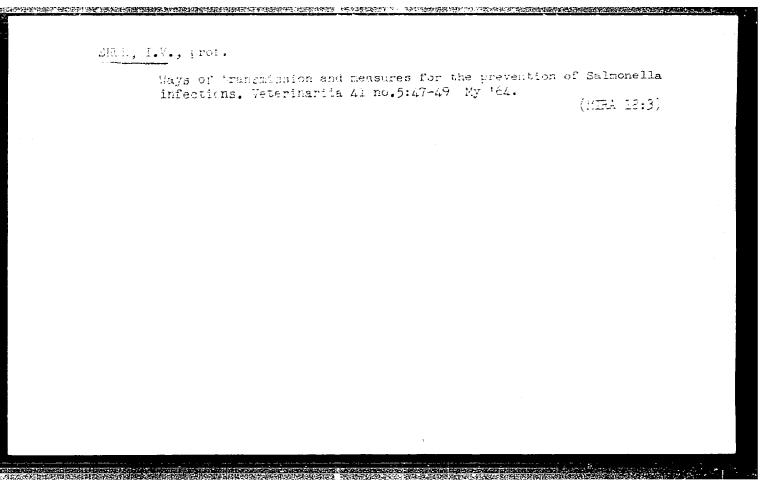
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Sanitary evaluation of meat from sheep with brucellosis. Veterinaria 38 no.]1:60-65 N '61 (MIRA 18:1)

l. Rukovoditel' laboratorii mikrobiologii i veterinarno-sanitarnoy ekspertizy Vsesoyuznogo nauchno-issledovatel'skogo instituta myasnoy promyshlennosti (for Kukharkova).



KANTOR, L.; KHATSKELEVICH, V.; SHUR, L.

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(MIRA 11:12)

(Radio--Transmitters and transmission)

5 HUK, L. 1

AUTHORS: Zhdanov, A.P. and Shur, L.I.

120-4-7/35

TITLE:

A Determination of the Sensitivity of Photographic Emulsions to Charged Particles. (Opredeleniye chuvstvitel nosti foto-

graficheskikh emul'siy k zaryazhennym chastitsam)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, No.4, pp. 29 - 31 (USSR)

ABSTRACT: The existing methods of estimation of the sensitivity of photographic emulsions to charged particles do not give an absolute characteristic of the sensitivity. A method is described whereby the sensitivity of a photo-emulsion is determined in terms of the energy loss which is necessary for a development of a grain, expressed in electron volts or ergs, or, for simplicity, in terms of the number of silver atoms. Using this method, emulsions having different sensitivity are compared. A quantitative approach to the problem of activation also becomes possible. Zhdanov's formula (Refs. 5 and 6) for the number of developed grains is used. This is of the form:

$$n = k\lambda M(\bar{d}_e/\bar{d})^2/\bar{d}$$
 (1)

where k is the coefficient depending on the density of AgBr, Card 1/2